

Northamptonshire County Council,
Education Committee.

FIFTEENTH
Annual Report

ON THE
Medical Inspection of Children
in Schools,

FOR THE YEAR 1922,

BY

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County Medical Officer of Health.

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CHARLES E. PAGET,
County Medical Officer of Health.

Prefatory Remarks. I have the honour to present herewith the Fifteenth Annual Report on the Medical Inspection of Children, except where stated otherwise, in the Public Elementary Schools of the Administrative County of Northampton, exclusive of those within the area of the Urban District of Kettering where elementary education is administered separately. The period covered by the report is the year 1922.

The arrangement of the report is on the lines of its immediate predecessors, and I am indebted, as in past years, to the Secretary of the Education Committee and the School Medical Officer for certain detailed administrative information necessary for its compilation.

The total number of Elementary schools involved in the scheme of medical supervision is 262—74 Council Schools and 188 Non-Provided Schools—comprising 306 Departments. The average number of Scholars on the Roll for the year ended the 31st March, 1922, was 28,248, as compared with 28,650 at the 17th June, 1921.

(e) CO-OPERATION OF PARENTS. The percentage of parents attending the routine inspections during the year was 56·8, as against 59·4 for the year 1921, 62·6 for the year 1920, and 60·2 for the year 1919.

(f) BLIND, DEAF, AND DEFECTIVE CHILDREN. During the year, four children have entered Institutions for the Blind, and one an Institution for the Deaf and Dumb. There have been, therefore, 23 children in Institutions during some part of the year, as against 31 during the year 1921 ; in the same period, two blind and two deaf and dumb children have left on reaching the age of 16 years. There were nine blind, nine deaf and dumb, and one mentally defective in Institutions at the end of the year.

In addition, there were six boys in Blind Institutions during the whole of the year, under the Higher Education Regulations.

Extent of Medical Inspection. During the year, each school was visited for routine inspection, and a second visit was paid for the inspection of special cases. In the year 1921, it was found possible to make a second visit to the schools in eight only of the ten school attendance districts.

The following table shows, on the plan of previous years, the full number of the public elementary schools children who were newly examined during the year 1922, arranged in age-groups irrespective of sex, together with the corresponding corrected figures for the year 1921, for the sake of comparison. The figures for 1921, in respect of "special inspections," became subject to revision, since the publication of the report for that year, owing to the interpretations as to that term made by the Board of Education. The number of "routine inspections" will be seen to have been greater in 1922 than in the year 1921.

							1921.	1922.
(i)	No. of children newly examined between the ages of 3 and 4 years, routine inspections...						574	612
(ii)	„	4	„	5	„	„	880	782
(iii)	„	5	„	6	„	„	1061	838
(iv)	„	6	„	7	„	„	423	325
(v)	„	7	„	8	„	„	89	69
(vi)	„	8	„	9	„	„	1640	2368
(vii)	„	9	„	10	„	„	—	—
(viii)	„	11	„	12	„	„	55	65
(ix)	„	12	„	13	„	„	2250	2465
(x)	„	13	„	14	„	„	204	347
(xi)	„	14	„	15	„	„	7	14
(xii)	No. of children at all ages, special inspections...						4336	3757
							11519	11642

The distribution of these scholars in respect of the several Urban and Rural Districts of the County is shewn in the following table ; in the official Table I. at the end of this report, these same scholars are shewn grouped as Entrants, Intermediates, and Leavers in Routine Medical Inspection, and as Special Cases.

PUBLIC HEALTH DISTRICTS.		Routine Inspections.						Special Inspections.		TOTALS.		
		Entrants.		Intermediates		Leavers.						
		Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	Total
Brackley	Borough	19	23	31	29	30	32	33	50	113	134	247
Daventry	„	17	20	27	22	27	23	51	67	122	132	254
Higham Ferrers	„	27	29	2	2	18	16	17	10	64	57	121
Desborough	Urban	13	36	32	22	32	37	47	77	124	172	296
Finedon	„	38	55	58	51	42	55	54	81	192	242	434
Irthlingborough	„	73	47	46	28	37	51	80	79	236	205	441
Oundle	„	8	5	14	10	9	19	6	5	37	39	76
Raunds	„	21	19	30	18	32	24	36	42	119	103	222
Rothwell	„	23	17	32	34	29	32	70	62	154	145	299
Rushden	„	80	79	81	87	109	98	109	67	379	331	710
Wellingborough	„	182	171	125	113	156	136	193	170	656	590	1246
Brackley	Rural	56	44	64	46	62	80	108	101	290	271	561
Brixworth	„	94	89	83	71	68	97	136	146	381	403	784
Crick	„	14	7	17	14	22	17	53	31	106	69	175
Daventry	„	87	91	83	65	102	100	158	168	430	424	854
Easton-on-the-Hill	„	20	15	25	12	16	21	11	18	72	63	138
Gretton	„	7	11	14	11	8	6	20	13	49	41	90
Hardingstone	„	42	36	51	43	56	62	58	54	207	195	402
Kettering	„	107	95	89	87	120	111	118	107	434	400	834
Middleton Cheney	„	27	23	14	11	14	31	45	25	100	90	190
Northampton	„	57	32	49	39	41	47	44	66	191	184	375
Oundle	„	46	46	43	28	53	53	72	62	214	189	403
Oxendon	„	35	24	19	28	23	23	30	29	107	104	211
Potterspury	„	40	28	31	32	30	47	50	49	151	156	307
Thrapston	„	84	72	77	76	80	100	100	123	341	371	712
Towcester	„	76	62	68	58	70	76	99	90	313	286	599
Wellingborough	„	86	71	76	50	105	106	80	87	347	314	661
Totals		1379	1247	1281	1087	1391	1500	1878	1879	5929	5713	11642
		2626		2368		2891		3757				

Heights and Weights. Tables VII. and VIII. at the end of the report show the facts as to heights and weights of the children examined during the year, in regard to public elementary and secondary schools respectively. The averages shown are quite good generally, but it is satisfactory to be able to note that the improvements noted in 1921 over the averages for 1920 were continued during the year 1922.

The chief improvement during this last year was among the girls of both urban and rural districts in respect of average weight at almost every age.

Findings of Medical Inspection. The following findings are the outcome of special analysis of the records to be found in Tables II. and VI., drawn up by the Board of Education, supplemented by individual records of the physical conditions of the scholars inspected—whether classified as Entrants, Intermediates, or Leavers.

(a) NUTRITION. It will be noticed in Table VI. that 290 of the children medically inspected at the routine inspections were recorded as suffering from malnutrition. This statement should be read as indicating that the standard of nutrition was “below normal” only, for there was no recorded case of “bad” nutrition; the rate of “normal” nutrition was 89.04 per cent. as against 85.3 per cent. in 1921; and there was a rate of 7.28 per cent. of “excellent” nutrition as against 9.48 per cent. in 1921. There was thus a total of normal and excellent nutrition for the year amounting to 96.32 per cent., as against 94.78 per cent. in 1921, 95.55 per cent. in 1920, and 94.1 per cent. in 1919. These figures appear to tally with the foregoing record as to improvement in weights, particularly in the case of the girl scholars, and are of a most satisfactory character.

(b) UNCLEANLINESS. The following information, in tabular form, gives a fair indication of the necessity for incessant vigilance in the effort to raise the standard of cleanliness of head and body respectively, and ultimately to maintain such standards when attained. As is well known, the greatest watchfulness and attention are required in respect of the long hair of the girl scholars.

		Rate per cent.			
	1922.	1921.	1920.	1919.	1918.
Cleanliness of Head	90·22	85·88	90·53	91·77	92·49
Body	95·49	93·21	93·46	95·46	96·56

It must be allowed that the growth of attention to this subject has insensibly raised the standard of cleanliness required by the Inspecting Staff, and this standard is in some measure accountable for the small difference between the records of the earlier and later years here recorded. More particular reference to the measures taken to improve conditions will be found under the heading of "School Nursing," further on in this report, and it will be seen therefrom that the Nursing Scheme, initiated in 1920, may be productive of sustained improvement in the future.

(c) NOSE AND THROAT. The total records with regard to affections of the nose and throat for the year 1922, may be conveniently tabulated as follows :—

Children Examined.	Boys.	Girls.	Total.	Per Cent.
No defect	3202	3081	6283	79·68
Mouth Breathers	257	168	425	5·39
Tonsils slightly enlarged ...	503	466	969	12·29
Tonsils much enlarged	117	132	249	3·16
Adenoids, slight	209	210	419	5·31
Adenoids, marked	18	26	44	0·56

The total absence of defect here noted is comparable with the percentages of 81·36 in 1921, 79·45 in 1920, and 80·64 in 1919. The rate of freedom shows, therefore, little variation in successive years, in respect of the total number of children examined ; but it must be noted that the variation in the rate for "leavers" during the last few years has been somewhat wider, having been 82·57 per cent. in 1922 as against 85·93 in 1921, 83·73 in 1920, and 85·66 in 1919. There is an encouraging feature, in support of the scheme for instruction as to breathing exercises and nose hygiene, in that the total rate for mouth-breathers was lower for 1922 than in the three preceding years, when the rate was 6·25 per cent. in 1921, 7·77 per cent. in 1920, and 6·33 per cent. in 1919. It is gratifying to note also that, of the 167 defects referred for treatment, as shewn in Table V. of this report, 102 or 61·0 per cent. were treated.

(d) TUBERCULOSIS. The total number of cases of tuberculosis recorded at the medical inspections was 47, distributed as follows : Pulmonary (definite) 7, (suspected) 26, Non-Pulmonary 14. The total number of children not attending school on account of pulmonary tuberculosis was 70—37 boys and 33 girls. The exclusion from schools of children suffering from this disease is carried out in consultation with the Tuberculosis Officer under the Public Health Department, and the return of any such child to school is dependent on his special examination and approval. Of children, whose crippling is due to tuberculosis, it is recorded that, during the year, there were fourteen in attendance at public elementary schools and thirteen excluded therefrom. In respect of the fourteen children attending school with non-pulmonary tuberculosis, seven had glandular disease, two bone disease, and the remaining five were affected in less defined form.

(e) SKIN DISEASE. The high rate of freedom from skin disease in the last few years was well maintained, the total percentage for 1922 on routine inspections being 98·97, as against 98·88 in 1921, and 98·93 in 1920. The total number of cases of ringworm found on routine inspections amounted to 21, as against 23 in the preceding year, and of impetigo to 38, as against 42 in 1921. On special inspections, ringworm was discovered in seventeen other cases and impetigo in ten. All the cases referred for treatment are recorded as having received it.

(f) EXTERNAL EYE DISEASE. On routine inspections there was found to be 98·98 percentage of freedom from external eye disease, as against 98·94 per cent. in 1921, and 98·86 per cent. in 1920. All these rates must be considered as very satisfactory. Of the whole number of 80 cases recorded, 48 or 60·0 per cent. were cases of blepharitis (inflammation of the eyelids), and only eleven were cases of corneal opacities. Of the 23 cases of eye disease specially referred for treatment, nineteen are recorded as having received it.

(g) EAR DISEASE AND HEARING. A slightly increased rate has to be recorded in respect of ear disease, the absence of which on routine inspections amounted to 98·51 per cent., as against 99·42

per cent. in 1921, and 99·38 per cent. in 1920. Obstruction only was found in two "leaver" girls, and otorrhœa was the main feature of the other ear ailments. Hearing, tested by whisper 20 feet from each ear, was found to be normal in 99·76 per cent. of the children examined, as against 99·85 per cent. in 1921. Treatment was secured in nineteen of the 25 cases of ear disease referred for such.

(h) VISION. The School Medical Officer reports that during the year he conducted defective vision examinations at the following centres, the number of visits being indicated in brackets :—Brackley (1), Daventry (3), Desborough (1), Kettering (5), Kings Cliffe (1), Northampton (23), Oundle (1), Raunds (1), Rothwell (1), Rushden (4), Thrapston (2), Towcester (2), Wellingborough (9), Woodford Halse (1). The total number of inspections was 643, as against 672 in 1921; of the children examined, 603 were from Elementary Schools and 40 from Secondary Schools, and spectacles were found necessary for 92 and five respectively of these. Applications for assistance in procuring spectacles were considered in 30 cases, and the Committee granted such assistance in 27, the total amount remitted being £5 10s. 6d.

In respect of the defects of vision, Dr. Mason reports as follows :

" 445 new cases were examined during the year 1922, of which
 " 47 had eye conditions other than errors of refraction, including 30
 " cases of Emmetropia (normal refraction). Of these latter, 21
 " (ten boys, eleven girls) showed symptoms of Asthenopia (eye-
 " strain) and nine (four boys, five girls) showed spasm of the ac-
 " commodative apparatus of the eye muscles, both of these con-
 " ditions being chiefly brought on by incorrect positions while
 " doing close work. I must again draw notice to the small amount
 " of attention which is given by teachers (Head and Assistant) to
 " this incorrect position, even where the desk and lighting accom-
 " modation are excellent. It may be assumed that every teacher
 " is aware of the correct position in which a child should be when
 " writing or reading, but few indeed make any real effort to obtain
 " it. Another factor of importance is the manner in which the
 " pen or pencil is held, and here again the attention given to the

“ point is practically nil. The number of such cases brought for
 “ refraction is small, but there must be many such cases of slighter
 “ degree which are not found out, but in which the condition will
 “ re-act against the well-being of the child. Of the cases of Errors
 “ of Refraction, these included 171 boys (42%) and 239 girls (58%)
 “ a larger disproportion than in previous years. Of these, 117 boys
 “ and 156 girls were discovered before the age of ten years, though
 “ 136 cases (30%) still appear in the eleven years and over group,
 “ which means that most of them were not found out until the child
 “ had the last routine examination before leaving school. I aim
 “ to get this group smaller and smaller as the teachers get into the
 “ way of testing the vision earlier in the child’s school life. Of the
 “ eyes of these children, 601 were hypermetropic (far sighted) and
 “ 218 myopic (short-sighted)—44% of the former and 62% of the
 “ latter being astigmatic (or 47% excluding mixed astigmatism).
 “ Myopia occurred in the age group up to ten years, boys 11%, girls
 “ 14%, and in eleven years and over, boys 31%, girls 39%, which
 “ shows no disproportionate increased incidence among the girls
 “ as is usually stated. If the cases of Mixed Astigmatism are
 “ included, in which the myopic element usually predominates, the
 “ figures remain in much the same proportion—up to ten years
 “ group, boys 25%, girls 29%, eleven years and over group, boys
 “ 53%, girls 59%. The different defects among the new cases were
 “ as follows :—

				Boys.	Girls.
“ Hypermetropia	...	...	...	258	343
“ Myopia	...	...	...	53	102
“ Mixed Astigmatism	...	...	...	31	32
“ Asthenopia (with Emmetropia)	...	...	...	10	11
“ Spasm of Accommodation	...	...	...	4	5
“ Irregular Astigmatism	...	...	...	1	1
“ High Myopia (Monocular)	...	...	...	4	1
“ Opacity of Cornea	...	...	...	2	1
“ Nystagmus	...	...	...	2	4
“ Cataract—Congenital	...	...	...	2	—
“ Dislocation of lenses—Congenital	...	...	...	1	—
“ Coloboma of Choroid	...	...	...	—	1

			Boys.	Girls.
" Coloboma of Iris	...	...	1	—
" Concussion of Retina	...	...	1	1
" Choroiditis, Congenital	...	...	—	1"

(1) DENTAL DEFECT. The proportion of school children found on routine inspections with sound teeth amounted to only 28·45 per cent, as against 33·55 per cent. in 1921, 31·85 per cent. in 1920, and 32·42 per cent. in 1919. In 28·88 per cent. of the children examined four or more teeth were found to be decayed.

The Scheme for Dental treatment has been in operation throughout the year. During this time the School Dentist examined children between the ages of six and nine years attending 181 departments. In this connection, it should be pointed out that the School Dentist inspected practically the whole of the larger schools during the year.

The Dentist's time was divided between inspection and treatment—roughly in the proportion of one to two. About one-third of the children examined and needing treatment were actually treated by him. The number treated by private dentists is practically negligible, so that, if all children needing treatment received it, five of the six working days in each week at least would be required for such treatment. Of almost all the two-thirds who were not treated it is reported that the parents were either indifferent or objected to treatment, though this indifference was less marked in 1922 than in 1921.

Dental inspection and treatment was begun in September, 1920. It was decided to start with the children aged six to eight, and the inspection of this age group was completed by the beginning of March, 1922, i.e. in a period of about eighteen months. On the second round of inspections, which is now in progress, children of six to eight are being examined, and those who were previously seen and who are now eighteen months older are being re-examined. This round, it is anticipated, will again take 18 months to complete.

It is recognised that, if ground is not to be lost, the child who has come once under inspection should be re-examined in each subsequent year until he or she leaves School, and, in view of this fact and also the probable increasing tendency on the part of parents to desire treatment for their children, it is likely that the dental staff will need to be increased as soon as conditions permit.

The number of children examined and treated by the Dentist is set out in Tables IV. D. and V. The fees charged are small ; but during the year, the Committee received nine applications for financial assistance, and remitted fees amounting to 14/6d. In addition, there were also, as noted in Table IV. F., under Treatment section of this report, 76 children noted by the School Medical Officers on their visits as requiring early dental treatment ; in 43 of these cases the parents obtained the necessary treatment from private dentists.

Infectious Diseases. The number of School Departments closed during the year for short or longer periods on account of the prevalence of infectious disease amounted to 141, and were accountable for as follows :—Influenza 79, Measles 27, Whooping Cough 22, Mumps 5, Chicken Pox 4, Scarlet Fever 3, Diphtheria 1. The closures during the year 1921 amounted to 46 only, and in the year 1920 to 88 ; the increased interruption to school work in the past year was attributable mainly to the prevalence of influenza during the early months.

School Nursing. Figures are given below of the work performed by the School Nurses during the year :—

	Distict and Emergency.	Wellingborough, Rushden and Higham Ferrers.
Visits to Schools ...	2230	117
Inspections at Schools ...	90371	12116
Visits to homes ...	6487	61
Children found to be unclean	4169	680
Children kept under observation for other conditions ...	2385	164

The fight against uncleanly conditions is maintained steadily, and, though one cannot feel entirely satisfied yet with the results, there is evidence of a general improvement in spite of the fact that, as time goes on and conditions improve, the tendency is to raise the standard of cleanliness. There is one school in a large urban area which is declared to be "nit free" a great achievement which should be emulated widely once it has been shown to be possible, but it means hard work and a high standard of morale. It would appear, therefore, as if nearly the best results obtainable under present standard conditions of home morale and environment are being reached, but it is more than probable that any relaxation of efforts would be at once followed by a marked increase of uncleanliness of heads. This is evidenced by the extra number of children who have to be warned after each vacation, especially the long summer vacation when no nursing supervision is carried on.

WELLINGBOROUGH, RUSHDEN, AND HIGHAM FERRERS NURSING. The arrangements under which the parents of children suffering from verminous conditions, and the children themselves, are seen by the School Nurse at the treatment centre and not at their homes has during the year been the subject of some criticism. It was adopted by the Committee deliberately with the object of reducing the number of possible visitors to the homes of the children. It has been found, however, as the result of experience, that some of the parents, and those the most troublesome, fail to visit the treatment centre. The Committee have accordingly decided that no prosecution of parents for the uncleanly condition of their children shall be instituted unless the Nurse has personally advised the parent as to the proper method of remedying such condition, and that for this purpose the Nurse may visit the homes of the children. This applies only in the districts of Wellingborough, Rushden, and Higham Ferrers. In the rest of the County the work is undertaken by the Nurses of the District Nursing Association who regularly visit the homes.

PROSECUTIONS. A number of prosecutions were taken during the year under the Attendance Bye-laws, following exclusions for verminous conditions.

Treatment. The particulars as to treatment of certain specified defects in school children are to be found in Tables IV. and V. of this report. The following Table has reference to other cases referred for treatment, and may be conveniently grouped under the heading of "Other Defects." Special mention has been made already of the cases of Carious Teeth, which figure at the end of the Table.

TABLE IV F.

	Other Defects. Referred for. Treatment.	Treated.
Malnutrition	13	11
Enlarged Cervical Glands	12	11
Heart and Circulation	13	13
Lungs	28	28
Tuberculosis—Bones and Joints	1	1
Chorea	1	1
Deformities	26	16
Carious Teeth	76	43

In respect of the TREATMENT OF MINOR AILMENTS, the number of children treated at the Wellingborough Park Street School Clinic during the year was as follows :—

Defects.	Total Number of Children.		
	Boys.	Girls.	Total.
Eye Disease	3	2	5
Ear Disease	2	4	6
Impetigo	3	—	3
Ringworm	5	5	10
Sores	19	14	33
Cuts and Wounds	5	3	8
Goitre.....	—	3	3
Other	3	3	6
	—	—	—
	40	34	74
	—	—	—

The total number of attendances made by children at the Clinic was 3,091, this number including the visits of children who attended for uncleanly condition.

Secondary School Inspections. The six Schools maintained by the Local Education Authority are examined as early as possible each term. The children inspected are (a) new entrants; (b) children who will reach 12 years of age during the term; (c) children who will reach 15 years of age during the term; (d) children who will leave at the end of the term; (e) children who were marked at previous inspections to be seen again; and (f) special cases presented by the Head Teachers.

The numbers of children seen during 1922 under these heads were :—

Schools.	First examination,		Re-examination,	
	(a) above		(b—e) above	
	Boys.	Girls.	Boys.	Girls.
Brackley High	—	27	—	49
Daventry Grammar	35	11	42	49
Kettering Grammar	39	—	147	—
Kettering High	—	53	—	189
Towcester Grammar	23	19	13	10
Wellingborough High	—	72	—	101
	—	—	—	—
	97	182	202	398
	279		600	

The Daventry Grammar, Kettering Grammar, and Towcester Grammar Schools were inspected by Dr. Mason, and the Brackley High, Kettering High, and Wellingborough High Schools by Dr. Newton.

In respect of the examinations of new Entrants, Normal Vision was found to be present in 80·41 per cent. of the boys and 85·16 per cent. of the girls, as against 78·90 and 72·72 per cent. respectively for the year 1921. No case of Squint was recorded, but Blepharitis was present in three cases among the girls.

As regards Teeth, 49·48 per cent. of the boys had less than four decayed, and 24·74 per cent. four or more decayed, as against 54·0 and 22·36 per cent. respectively in the year 1921 : similarly, among the girls, the percentages were 36·81 and 21·42 as against 42·51 and 14·70. Unclean condition of teeth was found in 27 cases among the boys and in 52 cases among the girls.

Uncleanliness of the head (nits only) was found among 17 of the girls.

Excellent Nutrition was recorded in 22 cases among the boys, and in 18 cases among the girls. No case of bad nutrition was found, but in respect of four of the girls nutrition was below normal.

Other defects found among the new entrants are summarised below :—

	Boys.	Girls.
Ear Disease	1	—
Heart and Circulation {		
Organic Heart Disease	2	1
Functional Heart Disease	—	4
Anæmia	—	7
Lungs. Non Tubercular Disease	2	1
Deformities {		
Spinal Curvature	—	—
Other	2	4
Mouth Breathers	—	15
Nose and Throat {		
Tonsils—Slightly enlarged	10	12
Much enlarged	2	9
Adenoids—Slightly enlarged	7	6
Much enlarged	1	1

Parents were notified in all cases of defects found which needed treatment. The statistics as to treatment are as follows :—

	Circulars issued to parents.		Treated			
	New Entrants.	Re-exam- inations.	New Entrants.	Re-exam- inations.	New Entrants.	Re-exam- inations.
			By S.M.O.	Privately		
Defective Vision	23	37	13	27	6	6
Carious or Defective Teeth	44	75	3	—	29	48
Deformity	2	2	—	—	1	2
Enlarged Tonsils ...	3	2	—	—	—	—
Adenoids	1	—	—	—	1	—
Enlarged Tonsils and Adenoids	1	2	—	—	—	1
Enlarged Glands	—	1	—	—	—	1
			43		95	
	193		138			

It will thus be seen that 71·5 per cent. of these defects had received treatment, either privately or at the hands of the Local Education Authority, by the end of the year.

CHARLES E. PAGET,
County Medical Officer of Health.

COUNTY HALL,
NORTHAMPTON,
MARCH, 1923.

TABLE I.—Number of Children Inspected 1st January, 1922, to 31st December, 1922.

A.—ROUTINE MEDICAL INSPECTION.

Age.	ENTRANTS.					Total.
	3	4	5	6	Other Ages.	
Boys	327	421	417	170	44	1379
Girls	285	361	421	155	25	1247
Totals	612	782	838	325	69	2626

Age.	Inter- mediate Group.	LEAVERS.			Other Ages.	Total.	Grand Total.
	8	12	13	14			
Boys ...	1281	1206	157	7	21	1391	4051
Girls ...	1087	1259	190	7	44	1500	3834
Totals ...	2368	2465	347	14	65	2891	7885

B.—SPECIAL INSPECTIONS.

	Special Cases.	Re-Examinations (<i>i.e.</i> , No. of Children Re-examined).
Boys ...	1878	573
Girls ...	1879	590
Totals ...	3757	1163

C.—TOTAL NUMBER OF INDIVIDUAL CHILDREN INSPECTED BY THE MEDICAL OFFICER, WHETHER AS ROUTINE OR SPECIAL CASES (no Child being counted more than once in one Year).

NO. OF INDIVIDUAL CHILDREN INSPECTED.
10479

TABLE II.—Return of Defects found in the course of Medical Inspection in 1922.

DEFECT OR DISEASE.		ROUTINE INSPECTIONS.		SPECIALS.	
		Number referred for Treatment.	Number requiring to be kept under observation.	Number referred for Treatment.	Number requiring to be kept under observation.
(1)		(2)	(3)	(4)	(5)
SKIN	Malnutrition	6	284	7	28
	Uncleanliness—Head	331	440	108	85
	Body	5	351	8	8
	Ringworm—Head ...	8	3	8	4
	Body ...	9	1	2	3
	Scabies	3	...	2	3
	Impetigo	16	22	5	5
	Other Diseases (non Tubercular)	2	17	...	7
EYE	Blepharitis	15	33	3	6
	Conjunctivitis	1	5	3	1
	Keratitis .....	...	1	...	2
	Corneal Ulcer .....	...	...	...	2
	Corneal Opacities ...	...	11	...	2
	Defective Vision	295	205	452	168
	Squint	37	42	...	9
	Other Conditions	1	14	...	8
EAR	Defective Hearing ...	...	9	2	6
	Otitis Media	10	20	12	21
	Other Ear Disease ...	1	7	...	1
NOSE AND THROAT	Enlarged Tonsils ...	116	1486	51	92
	Adenoids.....				
	Enlarged Tonsils and Adenoids.....				
	Other Conditions ...				
Enlarged Cervical Glands (Non-Tubercular)		7	812	5	13
Defective Speech .....		...	59	...	12

TABLE II.—*continued.*

DEFECT OR DISEASE.		ROUTINE INSPECTIONS.		SPECIALS.	
		Number referred for Treatment.	Number requiring to be kept under observation.	Number referred for Treatment.	Number requiring to be kept under observation.
(1)		(2)	(3)	(4)	(5)
HEART AND CIRCULATION	Heart Disease—				
	Organic .....	...	55	1	51
	Functional	2	68	1	77
	Anæmia	3	50	6	11
LUNGS	Bronchitis	3	82	4	} 89
	Other Non-Tubercular Disease	1	117	...	
TUBERCULOSIS	Pulmonary—				
	Definite	4	3	5	6
	Suspected	6	20	5	11
	Non-Pulmonary—				
	Glands .....	...	7	...	...
	Spine .....	...	...	...	...
	Hip .....	...	...	...	...
	Other Bones & Joints .....	...	2	1	1
	Skin .....	...	...	...	2
NERVOUS SYSTEM	Other Forms .....	...	5	...	...
	Epilepsy .....	...	5	...	10
	Chorea .....	...	4	1	7
	Other Conditions .....	...	...	...	...
DEFORMITIES	Rickets .....	...	32	...	...
	Spinal Curvature	1	12	...	1
	Other Forms	13	69	12	49
Other Defects and Diseases—Teeth		67	5575	9	49
†Number of INDIVIDUAL CHILDREN having Defects		955	5391	708	830

†Children included in “Referred for Treatment” totals are not again included in “Kept under Observation” total in respect of other defects.

TABLE III.—Numerical Return of all Exceptional Children in the Area in 1922.

		BOYS	GIRLS	TOTAL
Blind	Attending Public Elementary Schools	—	—	—
	Attending Certified Schools for the Blind	4	7	11
	Not at School	—	3	3
Deaf and Dumb	Attending Public Elementary Schools	—	—	—
	Attending Certified Schools for the Deaf	5	6	11
	Not at School	3	3	6
Feeble Minded	Attending Public Elementary Schools	135	85	220
	Attending Certified Schools	1	—	1
	Notified to Local Control Authority during the year	—	—	—
	Not at School	13	7	20
Imbeciles ...	At School	1	3	4
	Not at School	7	7	14
	Notified during the year	4	5	9
Idiots	At School	—	—	—
	Not at School	4	—	4
	Notified during the year	1	—	1
Epileptics ...	Attending Public Elementary Schools	9	11	20
	Attending Certified Schools	—	—	—
	In Other Institutions	—	—	—
	Not at School	4	2	6
Pulmonary Tuberculosis	Attending Public Elementary Schools	—	—	—
	Attending Certified Schools	—	—	—
	In Other Institutions	—	—	—
	Not at School	37	33	70
Crippling due to Tuberculosis	Attending Public Elementary Schools	11	3	14
	Attending Certified Schools	—	—	—
	In Other Institutions	—	—	—
	Not at School	6	7	13
Crippling due to Causes other than Tuberculosis	Attending Public Elementary Schools	33	23	56
	Attending Certified Schools	—	—	—
	In Other Institutions	—	—	—
	Not at School	11	2	13
Other Physically Defectives ...	Attending Public Elementary Schools	5	4	9
	Attending Open Air Schools	—	—	—
	Attending Certified Schools	—	—	—
	Not at School	42	46	88

TABLE IV.—Treatment of Defects of Children during 1922.

A.—TREATMENT OF MINOR AILMENTS.

DISEASE OR DEFECT.	NUMBER OF CHILDREN.		
	Referred for Treatment.	Treated	Total.
		Under Local Education Authority's Scheme	Otherwise.
SKIN—			
Ringworm—Head	16	...	16
Ringworm—Body	11	...	11
Scabies	5	...	5
Impetigo	21	...	21
Minor Injuries	...	...	...
Other Skin Diseases	2	...	2
EAR DISEASE	25	...	19
EYE DISEASE	23	...	20
MISCELLANEOUS Wellingborough Clinic Cases	74	74	74

B.—TREATMENT OF VISUAL DEFECT.

	NUMBER OF CHILDREN.				
	SUBMITTED TO REFRACTION.			No Treatment necessary.	
	Under Local Education Authority's Scheme	By Private Practitioner	Other-wise.	Total.	
Referred for Refraction.					
	For whom Glasses were Prescribed	For whom Glasses were Provided.	Recom-mended other Treatment.	Received other Treatment.	No Treat-ment necessary.
784	603	34	...	637	95

TABLE IV.—continued.
C.—TREATMENT OF DEFECTS OF NOSE AND THROAT.

NUMBER OF CHILDREN.			
Referred for Treatment.	RECEIVED OPERATIVE TREATMENT.		
	Under Local Education Authority's Scheme—	By Private Practitioner or Hospital.	Total.
	167	52	52
	...		50

D.—TREATMENT OF DENTAL DEFECTS.
1.—NUMBER OF CHILDREN DEALT WITH.

	AGE GROUPS.										Specials	Total.
	5	6	7	8	9	10	11	12	13	14		
	32	1438	1716	1025	699	209	193	171	134	21	17	5655
(a) Inspected by Dentist												
(b) Referred for Treatment												3420
(c) Actually Treated												1238
(d) Re-treated .....												...

2.—PARTICULARS OF TIME GIVEN AND OF OPERATIONS UNDERTAKEN.

No. of Half Days devoted to Inspection	No. of Half Days devoted to Treatment	No. of Attendances at Clinic.	No. of Permanent Teeth.		No. of Temporary Teeth.		Total No. of Fillings.	No. of Administrations of General Anæ.		No. of other Operations.	
			Extracted	Filled.	Extracted	Filled				Permanent Teeth.	Temporary Teeth.
			70	627	1748	5	632	5	5	17	...
147	230	1422									

370 Children were treated at the Schools at times of inspection (616 temporary extractions).

TABLE V.—Summary of Treatment of Defects as shewn in Table IV. (A, B, C, D, and F,)

DISEASE OR DEFECT.	NUMBER OF CHILDREN.			Total.
	Referred for Treatment.	TREATED.		
		Under Local Education Authority's Scheme.	Otherwise.	
Minor Ailments	177	74	94	168
Visual Defects	784	603	34	637
Defects of Nose and Throat.....	167	...	102	102
Dental Defects	3420	1238	...	1238
Other Defects	170	...	124	124
Total	4718	1915	354	2269

TABLE VI.—Summary relating to Children Medically Inspected at the Routine Inspections during the year 1922.

(1) The total number of children medically inspected at the routine inspections	7885
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(2) The number of children in (1) suffering from—	
Malnutrition	290
Skin Disease	81
Defective Vision (including Squint)	579
Eye Disease	80
Defective Hearing	19
Ear Disease	38
Nose and Throat Disease	1602
Enlarged Cervical Glands (non-tubercular)	819
Defective Speech	59
Dental Disease	5642
Heart Disease—Organic	55
Functional	70
Anæmia	53
Lung Disease (non-tubercular)	203
Tuberculosis—Pulmonary { Definite	7
{ Suspected.....	25
Non-pulmonary	13
Disease of the Nervous System	9
Deformities	127
Other Defects and Diseases .....	...
<hr/>	
(3) The number of children in (1) suffering from defects (other than uncleanliness or defective clothing or footgear) who require to be kept under observation (but not referred for treatment)	5391
<hr/>	
(4) The number of children in (1) who were referred for treatment (excluding uncleanliness, defective clothing, etc.)...	619
<hr/>	
(5) The number of children in (4) who received treatment for one or more defects	458

TABLE VII.

AGES.	NO. EXAM- INED.	AVERAGE HEIGHT		AVERAGE WEIGHT.	
		English (inches)	Metric (centimetres)	English (lbs.)	Metric (kilos.)
COMBINED URBAN DISTRICTS :					
BOYS.					
3— 4 years of age.....	168	38	96.5	34 $\frac{1}{4}$	15.5
4— 5 " "	159	39 $\frac{3}{4}$	100.9	36 $\frac{3}{4}$	16.7
5— 6 " "	116	42	106.7	40 $\frac{1}{4}$	18.2
6— 7 " "	46	44 $\frac{3}{4}$	113.6	47 $\frac{3}{4}$	21.7
7— 8 " "	12	46	116.8	48	21.8
8— 9 " "	478	48 $\frac{1}{2}$	123.2	54 $\frac{3}{4}$	24.8
11—12 " "	4	53	134.6	60	27.2
12—13 " "	468	55 $\frac{3}{4}$	141.6	75	34.0
13—14 " "	48	57 $\frac{1}{2}$	146.0.	78 $\frac{1}{4}$	35.5
14—15 " "	1	63 $\frac{1}{2}$	161.3	113	51.3
GIRLS.					
3— 4 years of age.....	145	37	94.0	33	15.0
4— 5 " "	158	39 $\frac{3}{4}$	100.9	35 $\frac{1}{4}$	16.0
5— 6 " "	136	42	106.7	39 $\frac{1}{4}$	17.8
6— 7 " "	56	44 $\frac{1}{4}$	112.4	43 $\frac{1}{2}$	19.7
7— 8 " "	6	46 $\frac{1}{2}$	118.1	48	21.8
8— 9 " "	416	48 $\frac{1}{2}$	123.2	53	24.0
11—12 " "	21	54 $\frac{1}{2}$	138.4	70	31.7
12—13 " "	450	56 $\frac{1}{2}$	143.5	78	35.4
13—14 " "	51	58	147.3	82 $\frac{1}{4}$	37.3
14—15 " "	1	58	147.3	100	45.3
COMBINED RURAL DISTRICTS :					
BOYS.					
3— 4 years of age.....	159	37 $\frac{1}{2}$	95.2	33 $\frac{3}{4}$	15.3
4— 5 " "	262	40	101.6	36 $\frac{3}{4}$	16.7
5— 6 " "	301	42 $\frac{1}{2}$	107.9	40 $\frac{3}{4}$	18.5
6— 7 " "	124	44 $\frac{3}{4}$	113.6	45	20.4
7— 8 " "	32	46	116.8	47 $\frac{3}{4}$	21.7
8— 9 " "	803	48 $\frac{3}{4}$	123.8	54	24.5
11—12 " "	17	56	142.3	75 $\frac{1}{2}$	34.2
12—13 " "	738	56 $\frac{1}{4}$	142.9	75 $\frac{1}{2}$	34.2
13—14 " "	109	57 $\frac{3}{4}$	146.7	81 $\frac{1}{4}$	36.8
14—15 " "	6	58 $\frac{3}{4}$	149.3	81 $\frac{1}{4}$	36.8
GIRLS.					
3— 4 years of age.....	140	37	94.0	33 $\frac{1}{4}$	15.1
4— 5 " "	203	39 $\frac{1}{2}$	100.3	35	15.9
5— 6 " "	285	42 $\frac{1}{4}$	107.3	39 $\frac{3}{4}$	18.0
6— 7 " "	99	43 $\frac{3}{4}$	111.1	42 $\frac{3}{4}$	19.4
7— 8 " "	19	45 $\frac{1}{2}$	115.5	47	21.3
8— 9 " "	671	48 $\frac{3}{4}$	123.8	53	24.0
11—12 " "	23	55 $\frac{1}{4}$	140.3	72	32.6
12—13 " "	809	57 $\frac{1}{4}$	145.4	78	35.4
13—14 " "	139	58 $\frac{3}{4}$	149.3	84 $\frac{1}{4}$	38.2
14—15 " "	6	60	152.4	93 $\frac{1}{2}$	42.4
	7885				

TABLE VIII.—Secondary Schools.

AGES.	NO. EXAM- INED.	AVERAGE HEIGHT		AVERAGE WEIGHT	
		English (inches)	Metric (centimetres)	English (lbs.).	Metric (kilos).
BOYS.					
5— 6 years of age.....	2	43	109.2	47½	21.5
7— 8 " "	—	—	—	—	—
8— 9 " "	11	50	127.0	59¼	26.9
9—10 " "	6	51¼	130.2	60	27.2
10—11 " "	6	55¼	140.3	73½	33.3
11—12 " "	31	56	142.3	75	34.0
12—13 " "	17	56¾	144.2	78	35.4
13—14 " "	7	59½	151.1	93¾	42.5
14—15 " "	13	61½	156.2	94¼	42.7
15—16 " "	1	65	165.1	124	56.2
16—17 " "	1	64	162.5	113½	51.5
17—18 " "	—	—	—	—	—
GIRLS.					
5— 6 years of age.....	1	41½	105.4	40½	18.4
6— 7 " "	6	46	116.8	50¼	22.8
7— 8 " "	6	47¾	121.3	51	23.1
8— 9 " "	12	48	121.9	52¼	23.7
9—10 " "	11	50	127.0	54	24.5
10—11 " "	20	53¼	135.3	66½	30.2
11—12 " "	32	56¼	142.9	74½	33.8
12—13 " "	41	56¾	144.2	81¼	36.8
13—14 " "	19	60	152.4	94½	42.9
14—15 " "	27	61¾	156.8	101¼	45.9
15—16 " "	4	62¼	158.2	101	45.8
16—17 " "	2	65	165.1	120½	54.6
18—19 " "	1	62	157.5	110½	50.1
277					

Two boys, aged 7—8 and 17—18 respectively though examined in other respects, did not have their Heights and Weights recorded.

